

# PUBLIC NOTICE

PERMIT APPLICATION: NRS 07.164

**APPLICANT:** TTC Halls, LLC  
6312 Kingston Pike Suite C  
Knoxville, TN 37919  
865-588-5171

**LOCATION:** North Fork Beaver Creek and unnamed tributary, US 441 (Norris Freeway), Halls Crossroads, Knox County 36.0842 °N, -83.9361 °W

**WATERSHED DESCRIPTION:** North Fork Beaver Creek and its tributary are located in the Lower Clinch watershed (HUC 06010207). The stream segments in the project area are not currently assessed for their support of their designated uses of fish and aquatic life, irrigation, livestock watering and wildlife, and recreation. North Fork Beaver Creek is from 6 to 12 feet wide, 3 to 5 feet deep with a clay loam and cobble/gravel substrate. The tributary is 2 to 6 feet wide, 1 foot deep and a predominately clay substrate. The riparian area is fescue on one side and mixed hardwoods on the other. The wetland is within TDOT right of way. It is a scrub-shrub wetland within the stream floodplain and is dominated by black willow, cattail, rushes, sedges, green ash, silver maple, and box elder. The surrounding watershed is rural with increasing residential and retail development.

Color photos of the existing stream and wetlands can be views on the Internet version of this notice at <http://www.state.tn.us/environment/wpc/ppo/arap>.

**PROJECT DESCRIPTION:** The applicant proposes to extend an existing culvert on North Fork Beaver Creek, relocate 277 feet of a tributary, fill 0.05 acres of wetlands and relocate an existing water line. These alterations are associated with the widening of Norris Freeway from 2 to 4 lanes.

The proposed culvert extension is an additional 36 feet of box culvert. The total culvert would be 66 feet.

The existing 277 linear feet of existing stream is proposed to be in a 320-foot channel with a similar size and substrate. The side slopes would be 2:1 or less. Two alternating rows of native, 18 – 24” bare root seedlings would be planted on 12-foot centers on both sides of the channel. The surrounding area would be stabilized with a mix of rice cutgrass, barnyard grass, Virginia wild rye, and deertongue.

The 12” water line will be relocated and cross North Fork of Beaver Creek just north of the proposed box culvert extension and be installed during culvert installation.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality.

There is a public hearing scheduled for this project. For more information, please see the notice for hearing 2007-026 at the following Internet address:

<http://www.state.tn.us/environment/wpc/ppo/arap>.

**USGS TOPOGRAPHIC QUADRANGLE:** Fountain City 146 SW

**PERMIT COORDINATOR:** Juliana W. Kyzar

No decision has been made whether to issue or deny this permit. The purpose of this notice is to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. Persons wishing to comment on the

proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing.

The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address for review and/or copying. The department's address is:

Tennessee Department of Environment & Conservation  
Division of Water Pollution Control, Natural Resources Section  
7th Floor L & C Annex  
401 Church Street  
Nashville, TN 37243

In deciding whether to issue or deny a permit, the department will consider all comments on record and the requirements of applicable federal and state laws.



**Photo 1:** General channel conditions of the unnamed tributary (photo provided by GEOS)



**Photo 2:** Typical substrate (photo provided by GEOS)



**Photo 3:** Confluence of unnamed tributary and North Fork of Beaver Creek (photo by GEOS)



**Photo 4:** Location of proposed culvert extension (photo by GEOS)

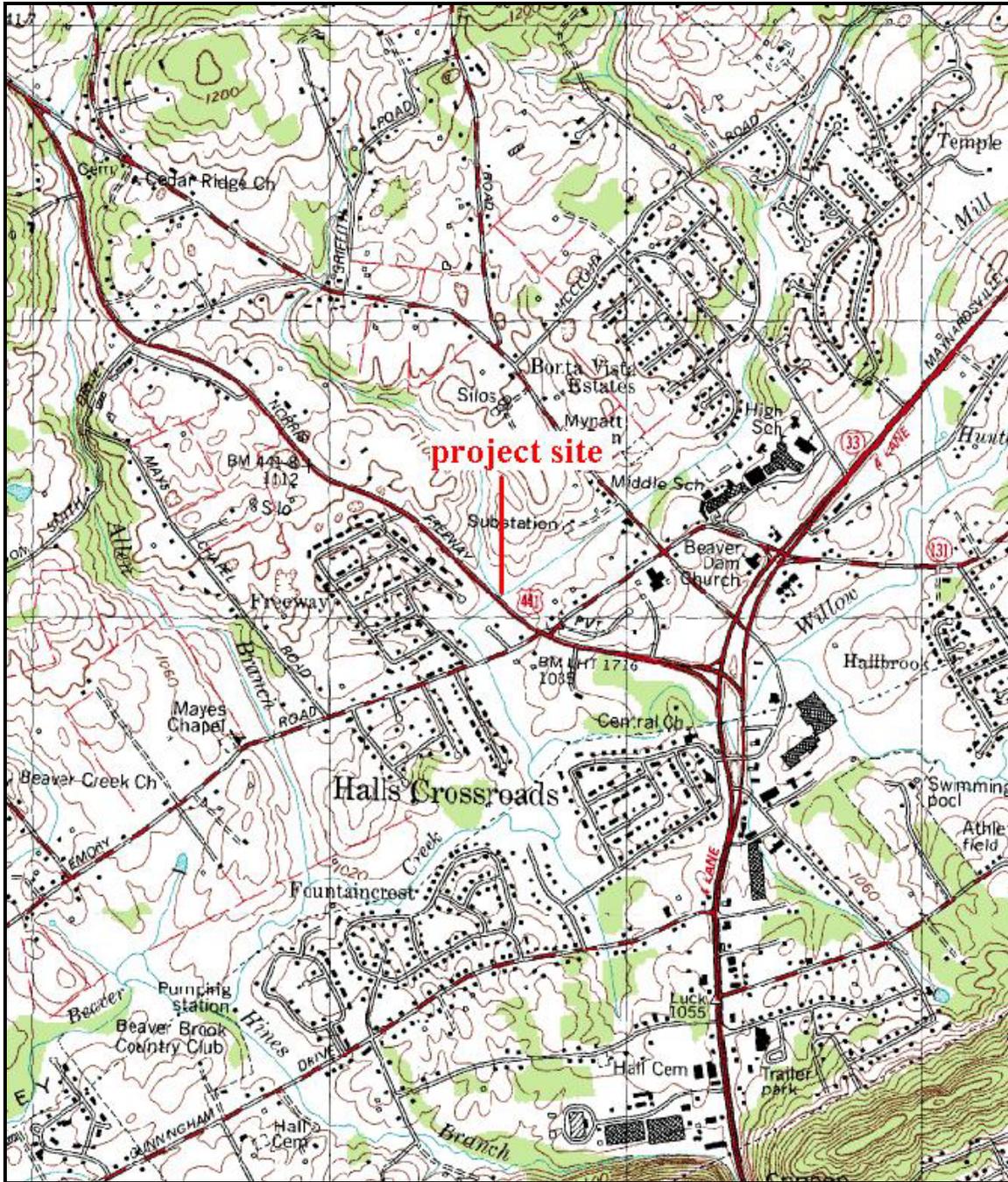


Figure 1: USGS topographic map with project area indicated

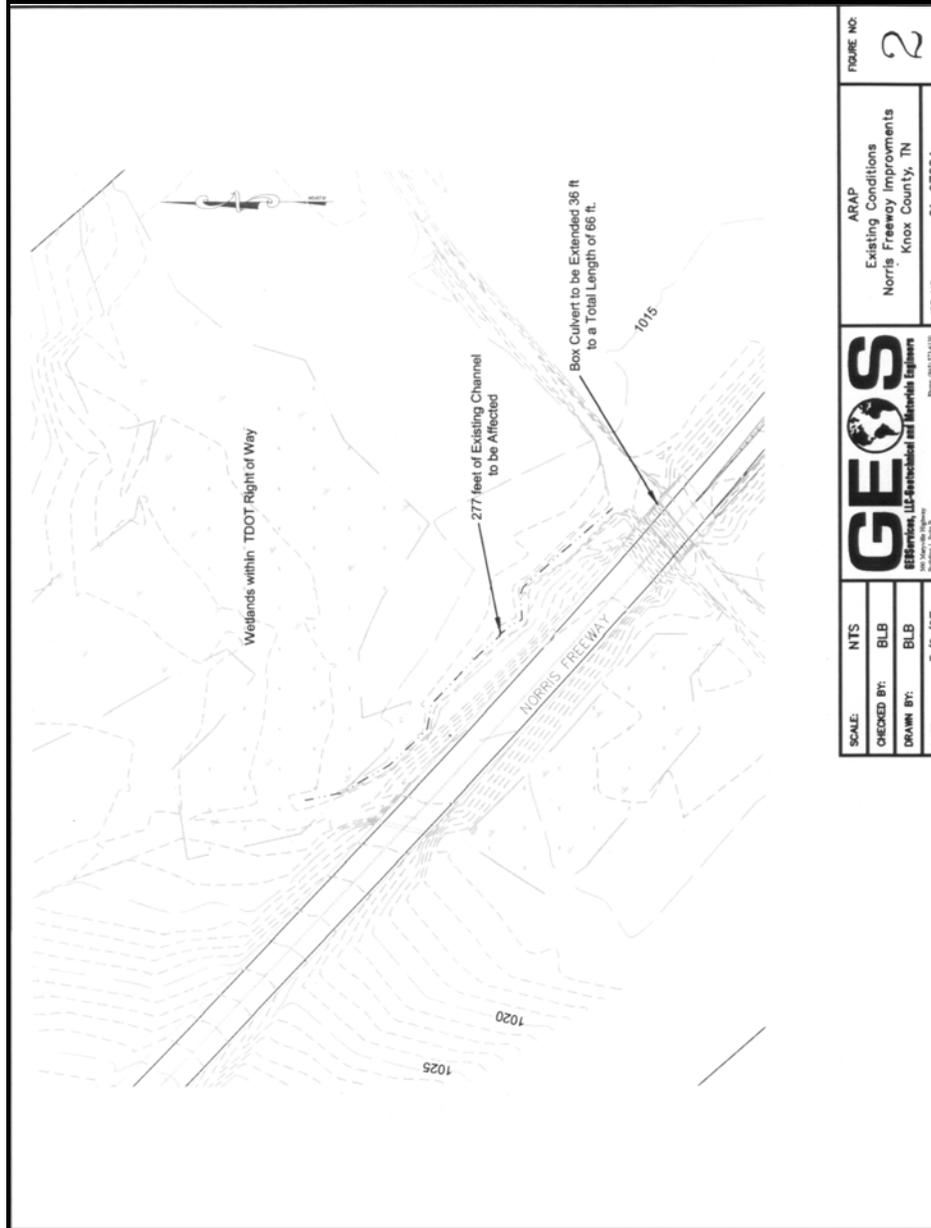


Figure 2: Existing stream and wetland conditions

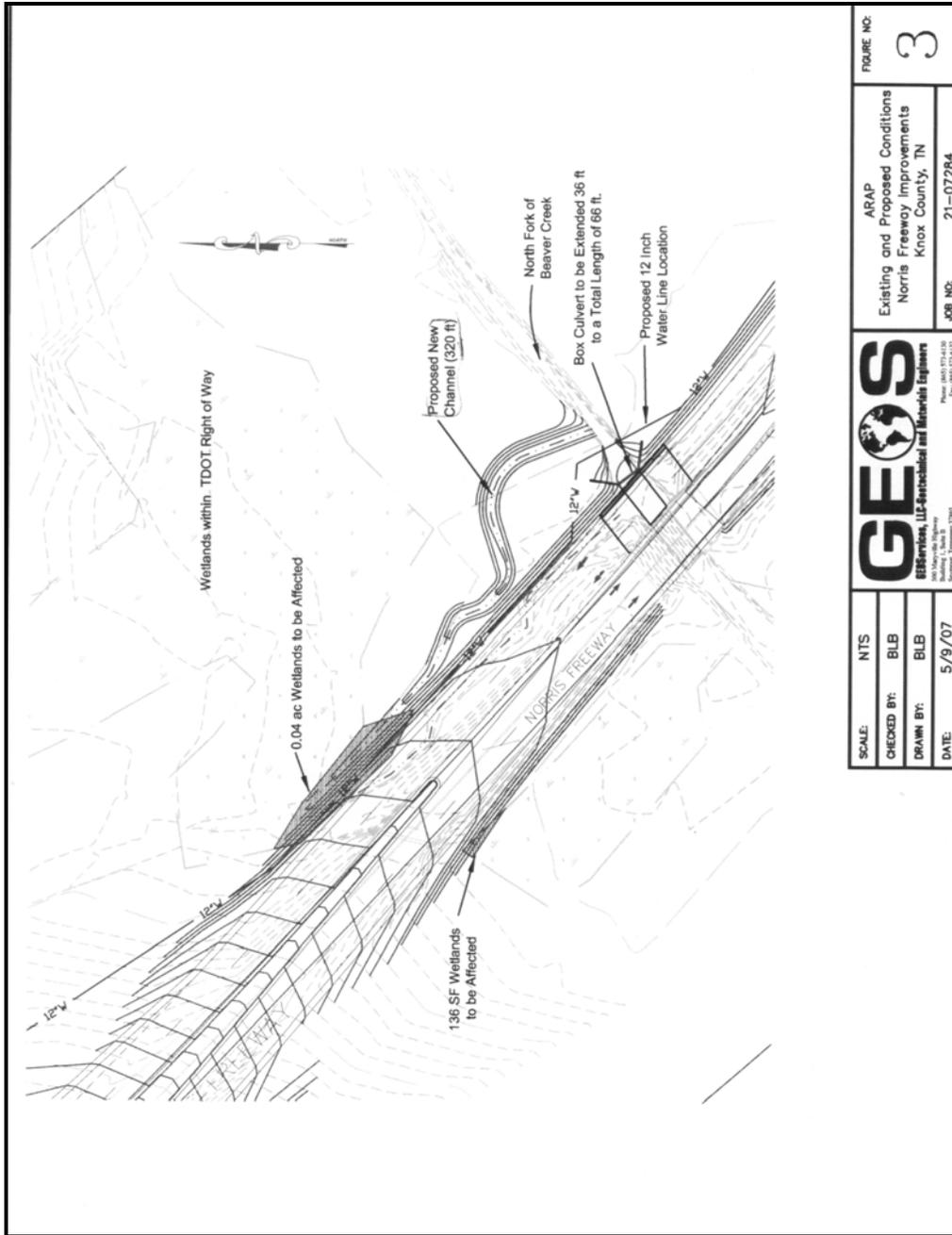
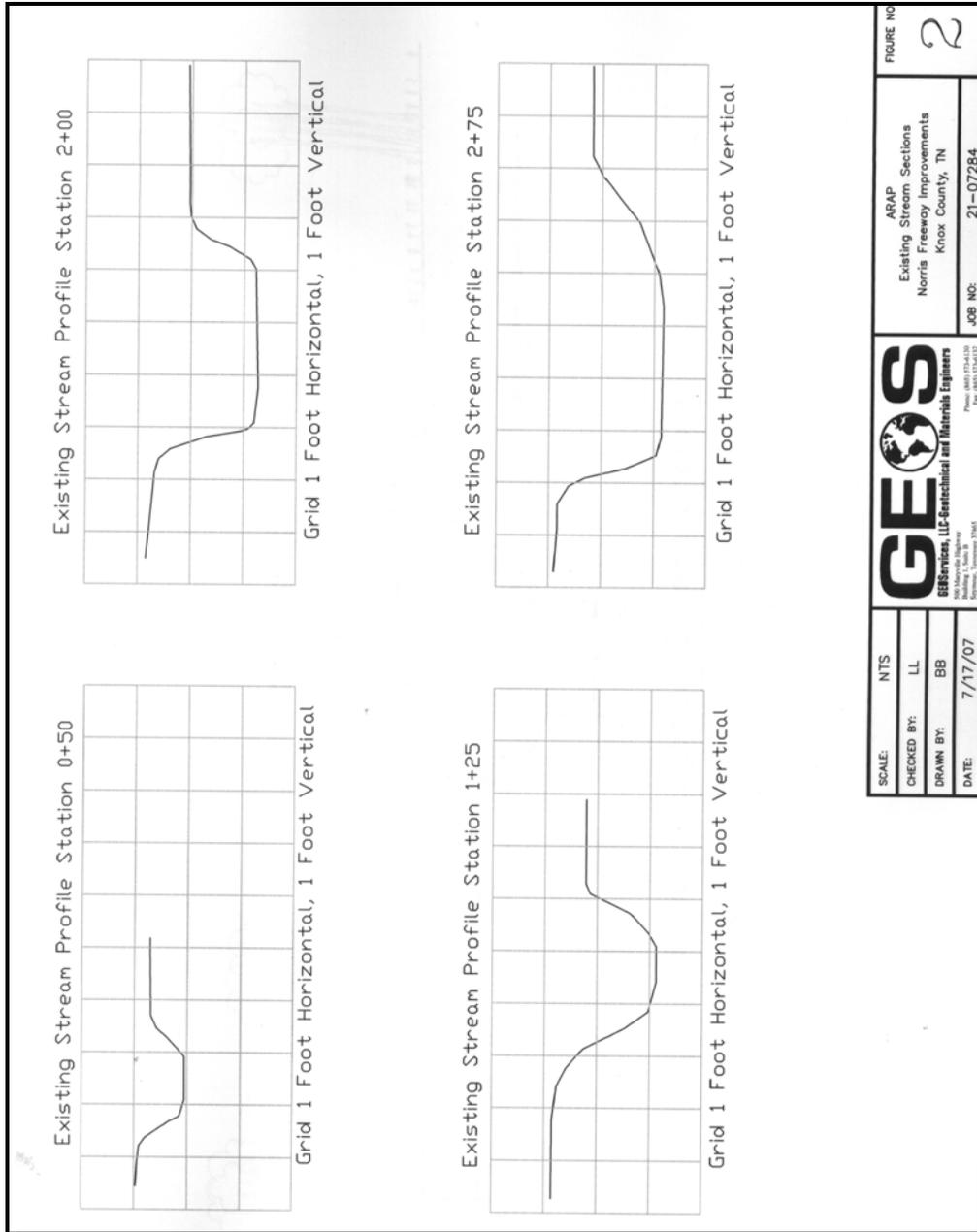


Figure 3: Proposed stream and wetland conditions

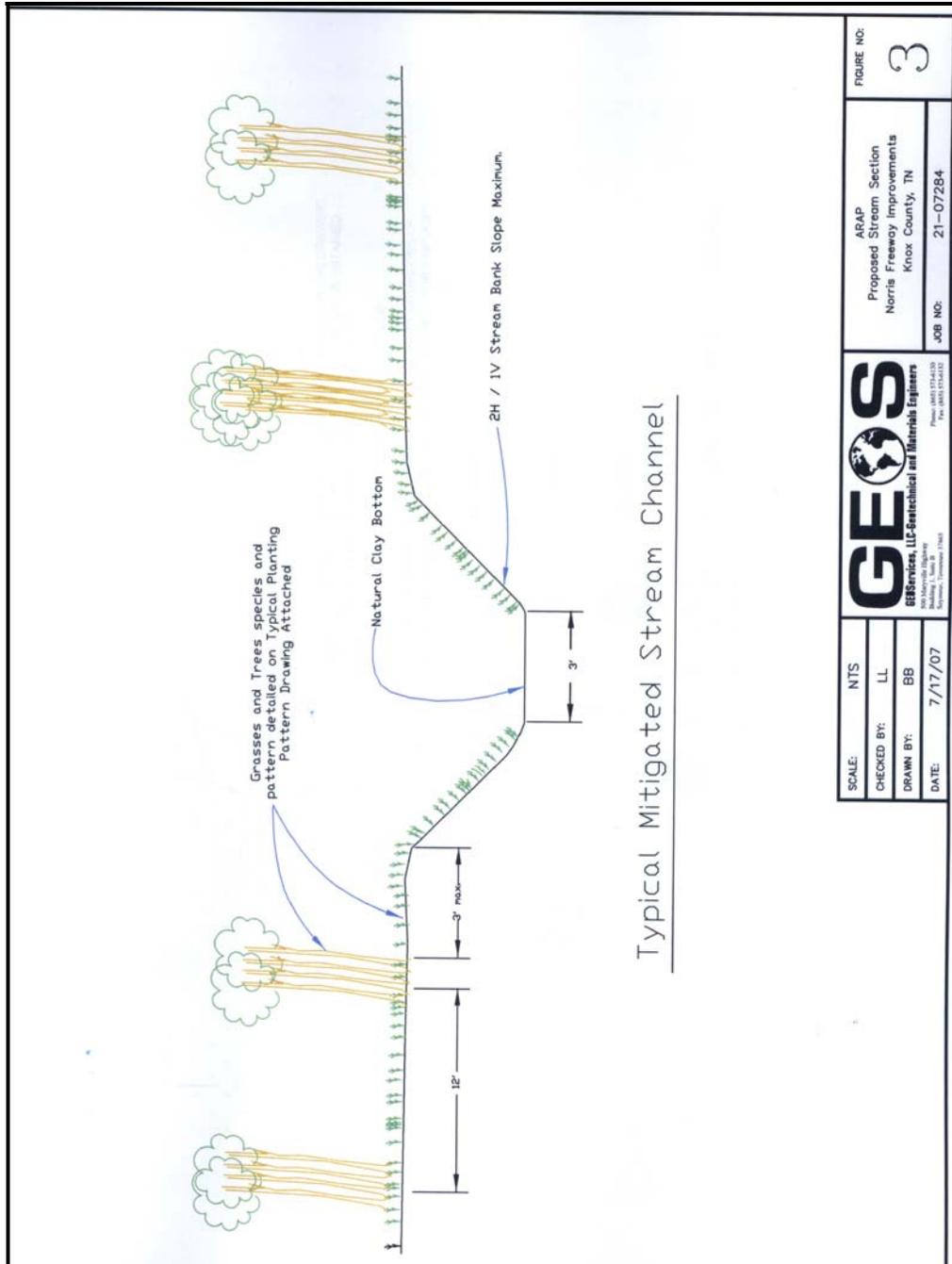
SCALE:	NTS
CHECKED BY:	BLB
DRAWN BY:	BLB
DATE:	5/9/07
<b>GEOS</b> Geotechnical, LLC-Geotechnical and Municipal Engineers P.O. Box 1724-02 Knoxville, Tennessee 37902 Phone: (615) 572-4100 Fax: (615) 572-4111	
ARAP Existing and Proposed Conditions Norris Freeway Improvements Knox County, TN	
JOB NO:	21-07284
FIGURE NO:	3



**Figure 4:** Existing stream cross sections

SCALE:	NTS	FIGURE NO:	2
CHECKED BY:	LL	ARAP	
DRAWN BY:	BB	Existing Stream Sections	
DATE:	7/17/07	Norris Freeway Improvements	
		Knox County, TN	
		JOB NO:	21-07284

**GEOS**  
 Geotechnical and Materials Engineers  
 200 McArthur Station  
 Building 1, Suite B  
 Dayton, Tennessee 37545  
 Phone: 603-253-2120  
 Fax: 603-253-2121



SCALE:	NTS	<b>GEOS</b> G&S Services, LLC-Geotechnical and Materials Engineers 1000 West 10th Street Knoxville, Tennessee 37902 Phone: (615) 574-1133 Fax: (615) 574-1132	APAP	Proposed Stream Section Norris Freeway Improvements Knox County, TN	FIGURE NO: <b>3</b>
CHECKED BY:	LL		JOB NO:		
DRAWN BY:	BB				
DATE:	7/17/07				

Figure 5: Proposed stream cross section

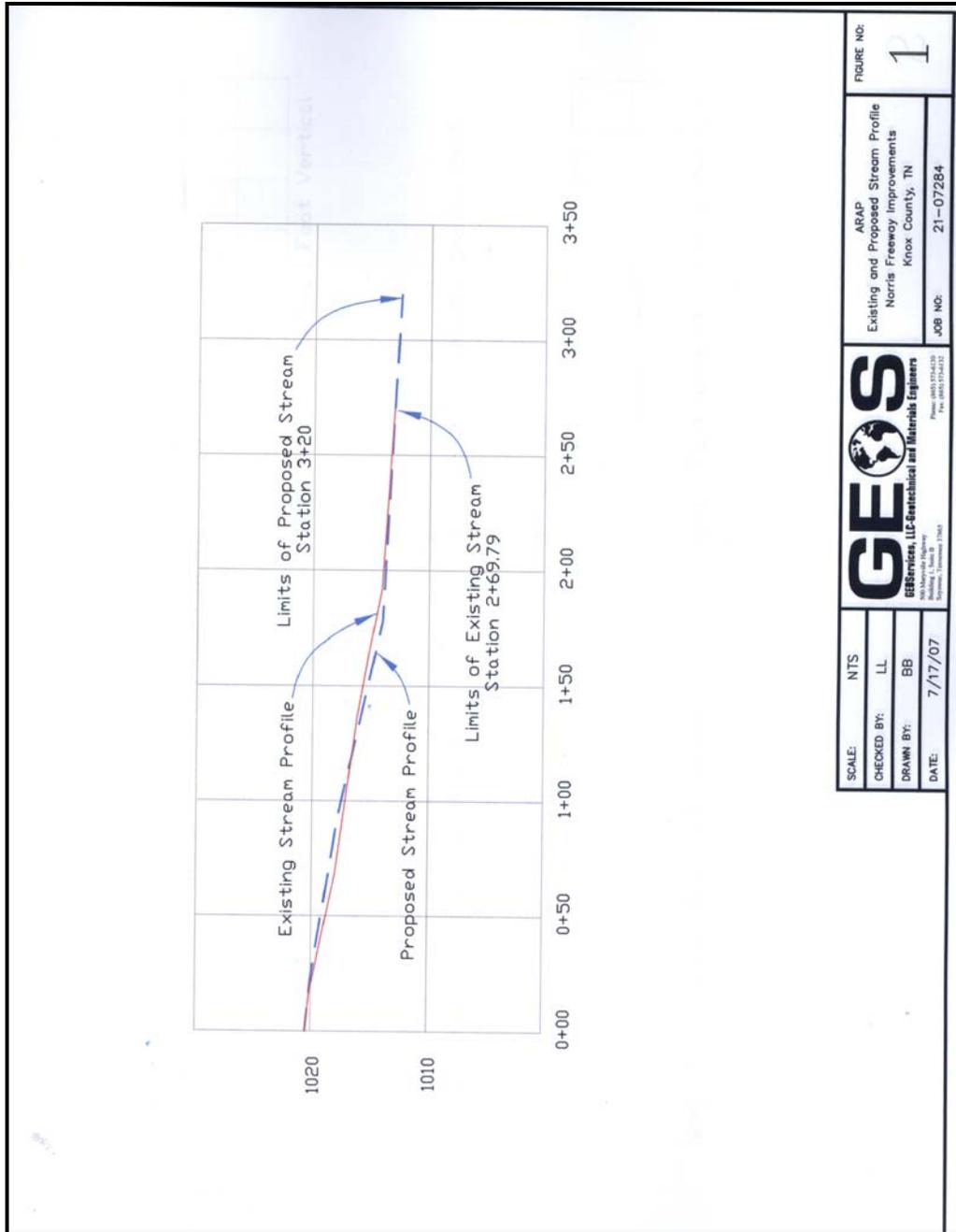


Figure 6: Existing and proposed stream longitudinal profile